Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11. (canceled)

12. (new) A process for producing a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R represents a hydroxyl-protecting group , by reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R has the meaning given above, with a trifluoromethanesulfonylating agent represented by formula [2],

wherein X represents an F atom, Cl atom or CF₃SO₃ group, in the presence of an organic base, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group, followed by reacting with a fluorinating agent comprising a salt or complex containing an organic base and hydrofluoric acid.

13. (new) A process for producing a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R represents a hydroxyl-protecting group , by reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R has the meaning given above, with a trifluoromethanesulfonylating agent represented by formula [5],

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CF_3SO_2F [5]

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group, followed by reacting with a fluorinating agent comprising a salt or complex containing triethylamine and hydrofluoric acid.

14. (new) A process for producing a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [8],

wherein THP represents a tetrahydropyranyl group, by reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [6],

wherein THP has the meaning given above, with a trifluoromethanesulfonylating agent represented by formula [5],

$$CF_3SO_2F$$
 [5]

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [7],

wherein THP has the meaning given above, and Tf represents a CF₃SO₂ group, followed by reacting with a fluorinating agent comprising a salt or complex containing triethylamine and hydrofluoric acid.

15. (new) A process for producing 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R represents a hydroxyl-protecting group, with a trifluoromethanesulfonylating agent represented by formula [2],

$$CF_3SO_2X$$
 [2]

wherein X represents an F atom, Cl atom or CF₃SO₃ group, in the presence of an organic base, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group,

(b) reacting the 2'-triflate compound represented by formula [3], with a fluorinating agent comprising a salt or complex containing an organic base and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R has the meaning given above, and

(c) reacting the hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4], with a deprotecting agent.

16. (new) A process for purifying 2'-deoxy-2'-fluorouridine represented by formula [9],

comprising reacting 2'-deoxy-2'-fluorouridine represented by formula [9],

with an acetylating agent in the presence of an organic base, to convert it to 3',5'-diacetylated 2'-deoxy-2'-fluorouridine represented by formula [10],

wherein Ac represents an acetyl group, followed by a recrystallization purification of the 3',5'-diacetylated 2'-deoxy-2'-fluorouridine and then reacting with a deacetylating agent.

17. (new) A process for purifying 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R represents a hydroxyl-protecting group, with a trifluoromethanesulfonylating agent represented by formula [2],

CF_3SO_2X [2]

wherein X represents an F atom, Cl atom or CF₃SO₃ group, in the presence of an organic base, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group,

(b) reacting the 2'-triflate compound represented by formula [3], with a fluorinating agent comprising a salt or complex containing an organic base and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R has the meaning given above,

(c) reacting the hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4], with a deprotecting agent, to convert it to 2'-deoxy-2'-fluorouridine represented by formula [9],

and

(d) reacting the 2'-deoxy-2'-fluorouridine represented by formula [9], with an acetylating agent in the presence of an organic base, to convert it to 3',5'-diacetylated 2'-deoxy-2'-fluorouridine represented by formula [10],

wherein Ac represents an acetyl group, followed by a recrystallization purification of the 3',5'-diacetylated 2'-deoxy-2'-fluorouridine and then reacting with a deacetylating agent.

18. (new) A 2'-triflate compound represented by formula [7],

wherein THP represents a tetrahydropyranyl group, and Tf represents a CF₃SO₂ group.

19. (new) A process for producing 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R represents a hydroxyl-protecting group, with a trifluoromethanesulfonylating agent represented by formula [5],

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group,

(b) reacting the 2'-triflate compound represented by formula [3], with a fluorinating agent comprising a salt or complex comprising containing triethylamine and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R has the meaning given above, and

(c) reacting the hydroxyl-protected 2'-deoxy-2'fluorouridine compound represented by formula [4], with a deprotecting agent.

20. (new) A process for purifying 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [1],

wherein R represents a hydroxyl-protecting group, with a trifluoromethanesulfonylating agent represented by formula [5],

$$CF_3SO_2F$$
 [5]

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [3],

wherein R has the meaning given above, and Tf represents a CF₃SO₂ group,

(b) reacting the 2'-triflate compound represented by formula [3], with a fluorinating agent comprising a salt or complex comprising containing triethylamine and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [4],

wherein R has the meaning given above, and

(c) reacting the hydroxyl-protected 2'-deoxy-2'fluorouridine compound represented by formula [4], with a deprotecting agent, to convert it to 2'-deoxy-2'-fluorouridine represented by formula [9],

and

(d) reacting the 2'-deoxy-2'-fluorouridine represented by formula [9], with an acetylating agent in the presence of an organic base, to convert it to 3',5'-diacetylated 2'-deoxy-2'-fluorouridine represented by formula [10],

wherein Ac represents an acetyl group, followed by a recrystallization purification of the 3',5'-diacetylated 2'-deoxy-2'-fluorouridine and then reacting with a deacetylating agent.

21. (new) A process for producing 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [6],

wherein THP represents a tetrahydropyranyl group, with a trifluoromethanesulfonylating agent represented by formula [5],

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [7],

wherein THP has the meaning given above, and Tf represents a CF₃SO₂ group, (b) reacting the 2'-triflate compound represented by formula [7], with a fluorinating agent comprising a salt or complex comprising containing triethylamine and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [8],

wherein THP has the meaning given above, and

(c) reacting the hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [8], with a deprotecting agent.

22. (new) A process for purifying 2'-deoxy-2'-fluorouridine represented by formula [9],

the process comprising the steps of:

(a) reacting 1- β -D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by formula [6],

wherein THP represents a tetrahydropyranyl group, with a trifluoromethanesulfonylating agent represented by formula [5],

$$CF_3SO_2F$$
 [5]

in the presence of triethylamine, to convert it to a 2'-triflate compound represented by formula [7],

wherein THP has the meaning given above, and Tf represents a CF₃SO₂ group,

(b) reacting the 2'-triflate compound represented by formula [7], with a fluorinating agent comprising a salt or complex comprising containing triethylamine and hydrofluoric acid, to convert it to a hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [8],

wherein THP has the meaning given above, and

(c) reacting the hydroxyl-protected 2'-deoxy-2'-fluorouridine compound represented by formula [8], with a deprotecting agent, to convert it to 2'-deoxy-2'-fluorouridine represented by formula [9],

and

(d) reacting the 2'-deoxy-2'-fluorouridine represented by formula [9], with an acetylating agent in the presence of an organic base, to convert it to 3',5'-diacetylated 2'-deoxy-2'-fluorouridine represented by formula [10],

wherein Ac represents an acetyl group, followed by a recrystallization purification of the 3',5'-diacetylated 2'-deoxy-2'-fluorouridine and then reacting with a deacetylating agent.